

PROGRAM
OF
GRADUATE COURSES.

BRYN MAWR COLLEGE.

1894.

BRYN MAWR COLLEGE.

COLLEGE CALENDAR.

1894.														1895.													
JANUARY.							JULY.							JANUARY.							FEBRUARY.						
Su.	M.	Tu.	W.	Th.	Fr.	Sa.	Su.	M.	Tu.	W.	Th.	Fr.	Sa.	Su.	M.	Tu.	W.	Th.	Fr.	Sa.	Su.	M.	Tu.	W.	Th.	Fr.	Sa.
..	1	2	3	4	5	6	1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	..	1	2	3	4	5
7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12	13	14	15	16	17	18	19
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19	20	21	22	23	24	25	26
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26	27	28	29	30	31	..	..
28	29	30	31	..	..	..	29	30	31	..	..	..	..	27	28	29	30	31	..	..	..	..	..	..	..	..	..
..
FEBRUARY.							AUGUST.							FEBRUARY.							MARCH.						
..	..	..	..	1	2	3	..	..	..	1	2	3	4	..	..	..	..	..	1	2	..	..	..	..	..	1	2
4	5	6	7	8	9	10	5	6	7	8	9	10	11	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11	12	13	14	15	16	17	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	19	20	21	22	23
18	19	20	21	22	23	24	19	20	21	22	23	24	25	17	18	19	20	21	22	23	24	25	26	27	28	29	30
25	26	27	28	..	..	..	26	27	28	29	30	31	..	24	25	26	27	28	..	..	..	..	..	..	..	..	..
..
MARCH.							SEPTEMBER.							MARCH.							APRIL.						
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	..	..	..	1	2	..	..	..	..	..	1	2
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	17	18	19	20	21	22	23
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	24	25	26	27	28	29	30
25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30	31	..	..	..	..	..	..
..	..	..	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
APRIL.							OCTOBER.							APRIL.							MAY.						
1	2	3	4	5	6	7	..	1	2	3	4	5	6	..	1	2	3	4	5	6	..	..	..	..	..	1	2
8	9	10	11	12	13	14	7	8	9	10	11	12	13	7	8	9	10	11	12	13	14	15	16	17	18	19	20
15	16	17	18	19	20	21	14	15	16	17	18	19	20	14	15	16	17	18	19	20	21	22	23	24	25	26	27
22	23	24	25	26	27	28	21	22	23	24	25	26	27	21	22	23	24	25	26	27	28	29	30	31	..	..	..
29	30	..	..	..	..	..	28	29	30	31	..	..	..	28	29	30	..	..	..	..	..	..	..	..	..	..	..
..
MAY.							NOVEMBER.							MAY.							JUNE.						
..	..	1	2	3	4	5	..	..	..	..	1	2	3	..	..	..	..	..	1	2	..	..	..	..	..	1	2
6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11	12	13	14	15	16	17	18
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18	19	20	21	22	23	24	25
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25	26	27	28	29	30	31	..
27	28	29	30	31	..	..	25	26	27	28	29	30	..	26	27	28	29	30	31	..	..	..	..	..	..	..	..
..
JUNE.							DECEMBER.							JUNE.							JULY.						
..	..	..	..	..	1	2	..	..	..	..	..	..	1	..	..	..	..	..	1	2	..	..	..	..	..	1	2
3	4	5	6	7	8	9	2	3	4	5	6	7	8	3	4	5	6	7	8	9	10	11	12	13	14	15	
10	11	12	13	14	15	16	9	10	11	12	13	14	15	9	10	11	12	13	14	15	16	17	18	19	20	21	
17	18	19	20	21	22	23	16	17	18	19	20	21	22	16	17	18	19	20	21	22	23	24	25	26	27	28	
24	25	26	27	28	29	30	23	24	25	26	27	28	29	23	24	25	26	27	28	29	30	31	..	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 7th, 1894.

There will be a winter recess from December 20th, at one o'clock, to

January 4th, at nine o'clock ; and a spring recess from March 20th, at one o'clock, to March 28th, at nine o'clock.

The first semester will end February 2nd ; half yearly examinations will be held during the last two weeks of the semester, from January 22nd to February 2nd.

The second semester will begin February 5th, at nine o'clock.

The lectures and class-work of the tenth academic year will begin October 2nd, 1894, at nine o'clock, and will close June 6th, 1895.

There will be a winter recess from December 19th, 1894, at one o'clock, to January 3rd, 1895, at nine o'clock ; and a spring recess from April 9th, at one o'clock, to April 17th, at nine o'clock.

The first semester will end February 8th, 1895 ; half yearly examinations will be held during the last two weeks of the semester, January 28th to February 8th.

The second semester will begin February 11th, 1895, at nine o'clock.

BOARD OF TRUSTEES.

JAMES E. RHOADS,
President.

JOHN B. GARRETT,
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DAVID SCULL,
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CHARLES S. TAYLOR, Philadelphia.

JAMES CAREY THOMAS, Baltimore.

JAMES E. RHOADS, Bryn Mawr, Pa.

JAMES WHITALL, Philadelphia.

JOHN B. GARRETT, Rosemont, Pa.

EDWARD BETTLE, JR., Philadelphia.

CHARLES HARTSHORNE, Philadelphia.

DAVID SCULL, Philadelphia.

WILLIAM R. THURSTON, New York.

ALBERT K. SMILEY, Lake Mohonk, N. Y.

PHILIP C. GARRETT, Philadelphia.

HOWARD COMFORT, Philadelphia.

JUSTUS C. STRAWBRIDGE, Philadelphia.

ACADEMIC APPOINTMENTS.

JAMES E. RHODES, LL.D., *President of the College.*

M. CAREY THOMAS, PH.D., * *Dean of the Faculty and Professor of English.*
A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; Sorbonne and the Collège de France, 1883.

CHARLOTTE ANGAS SCOTT, D.SC., *Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

EDWARD WASHBURN HOPKINS, PH.D., *Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878-81; University of Leipsic, 1878-81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collège de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881-84.

EDWARD H. KEISER, PH.D., *Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry, Swarthmore College, 1880-81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882-84; Ph.D., Johns Hopkins University, 1884; Student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884-85.

HERMANN COLLITZ, PH.D., *Associate Professor of German, and Teutonic Philology.*

Bleekede, Hanover, Germany. University of Göttingen, 1875-78; University of Berlin, 1878-81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885-86.

JAMES HARKNESS, A.M. (*Cambridge and London*), *Associate Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler) in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, PH.D., *Professor of Greek.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipsic, 1879-81; University of Göttingen, 1881-83; Instructor in Classics and Sanskrit, Williams College, 1883-85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885-87; Reader in Greek Literature, Johns Hopkins University, 1887-88.

MARY GWINN, PH.D., *Associate Professor of English.*

Studied at the University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and Student 1887-88; Ph.D., Bryn Mawr College, 1888.

FRANKLIN H. GIDDINGS, A.M., *Professor of Political Science.*

A.B., Union College, 1877, and A.M., 1889.

CHARLES MCLEAN ANDREWS, PH.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888-89; Ph.D., 1889.

GONZALEZ LODGE, PH.D., *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883-86; Ph.D., 1886; Professor of Greek, Davidson College, 1886-88; American School of Classical Studies, Athens, 1888-89; University of Bonn, 1889.

* President (elect), Academic Year 1894-95.

GEORGE A. BARTON, PH.D., *Associate in Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891.

JOSEPH AUGUSTE FONTAINE, PH.D., *Associate Professor of Romance Languages.*

College of Sion, Nancy, France, 1879; Paris, 1880-81; Johns Hopkins University, 1882-86; Ph.D., 1886; Collège de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886-87; Instructor, University of Nebraska, 1887-89; Professor of Modern Languages in the University of Mississippi, 1889-91.

ARTHUR STANLEY MACKENZIE, A.B., *Associate in Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887-89; Fellow, Johns Hopkins University, 1890-91.

JAMES DOUGLAS BRUCE, PH.D., *Associate in Anglo-Saxon.*

A.M., University of Virginia, 1883; University of Berlin, 1886-88; University of Strasburg, 1888; Johns Hopkins University, 1889-90; Professor of Modern Languages, Centre College, 1890-91; Ph.D., John Hopkins University, 1894.

THOMAS HUNT MORGAN, PH.D., *Associate Professor of Biology.*

B.S., State College, Kentucky, 1886, and M.S., 1888; Graduate Scholar, Johns Hopkins University, 1888-90; Fellow in Biology, Johns Hopkins University, 1889-90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890-91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871-72; University of Leipsic, 1872-73; University of Bonn, 1873-79; M.D., Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881-91; Lecturer in Medical Department of the University of the City of New York, 1885-86; Lecturer on Physiology, University of Michigan, 1889.

WILLIAM CRANSTON LAWTON, A.B., *Professor of Greek and Latin Literature.*

A.B., Harvard University, 1873; studied, University of Göttingen, 1876-77; Graduate Student, Harvard University, 1879-80; Member of Archæological Expedition to Assos, 1881; studied, University of Berlin, 1882-83; Acting Professor of Greek, Boston University, 1890-91; Winkley Professor of Latin, Bowdoin College, 1891-92.

DICKINSON SERGEANT MILLER, PH.D., *Associate in Philosophy.*

University of Pennsylvania, 1885-88; Fellow in Philosophy, Clark University, 1889-90; Morgan Fellow, Harvard University, 1890-91; Walker Fellow, Harvard University, 1891-92; A.B. and A.M., Harvard University, 1892; University of Berlin, 1892-93; Ph.D., University of Halle, 1893.

ELMER P. KOHLER, PH.D., *Associate in Chemistry.*

A.B., Muhlenburg College, 1889; studied at Johns Hopkins University, 1889-92; Ph.D., Johns Hopkins University, 1892.

EDGAR BUCKINGHAM, PH.D., *Associate in Physics.*

A.B., Harvard University, 1887; Assistant in Physics, Harvard University, 1888-89; Assistant in Physics, University of Strasburg, 1889-90; University of Leipsic, 1890-91; Assistant in Physics, Harvard University, 1891-92; Tyndall Scholar of Harvard University, University of Leipsic, 1892-1893; Ph.D., University of Leipsic, 1893.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honors, Newnham College, University of Cambridge, England, 1886 (Medieval and Modern Languages Tripos, First Class).

FREDERIC M. PAGE, *Reader in Romance Languages.*

College Chaptal, Paris; attended Studi Superiori, Florence; Instructor in Languages, University of Virginia, 1880-82; Acting Professor of Modern Languages and Literature, University of the South, 1882-83; Professor of Modern Languages and Literature, University of the South, 1883-91.

ABBY KIRK, A. B., *Reader in English.*

A.B., Bryn Mawr College, 1892.

HARRIET RANDOLPH, Ph.D., *Demonstrator in Biology and Reader in Botany*.
A.B., Bryn Mawr College, 1889; Fellow in Biology, Bryn Mawr College, 1889-90; University
of Zürich, 1890-92; Ph.D., University of Zürich, 1892.

FLORENCE V. KEYS, A.B., *Reader in English*.

A.B., University of Toronto, 1891; Fellow in Greek, Bryn Mawr College, 1891-92; Fellow in
English, Bryn Mawr College, 1892-93.

ANNA DONALDSON MCNAIR, A.B., *Director of the Gymnasium*.

A.B., Antioch College, 1886; studied under Dr. Sargent, 1889-91.

MARY ELIZABETH BATES, *Assistant in the Gymnasium*.

Graduate of Boston Normal School of Gymnastics, 1893.

IDA RICHARDSON, M.D., *Physician of the College*.

FLORENCE E. PEIRCE, *Librarian*.

HENRIETTA R. PALMER, A.B., *Associate Librarian*.

School of Library Economy, Columbia College, 1887-89; Acting Librarian, Bryn Mawr Col-
lege, 1890-91; A.B., Bryn Mawr College, 1893.

BESSIE BAKER, B.S., *Assistant Librarian*.

B.S., Purdue University, Lafayette, Indiana, 1886; studied in the New York City Library
School, 1891-92.

MADELINE VAUGHAN ABBOTT, A.B., *Secretary*.

FREDERICKA M. KERR, *Bursar*.

SUSAN GRIMES WALKER, A.B., *Secretary to the Dean*.

Honorary Corresponding Secretaries.

MARY MCMURTRIE, A.B., 1104 *Spruce Street*, PHILADELPHIA.

SOPHIA WEYGANDT, A.B., *Upsal Street*, GERMANTOWN.

BERTHA HAVEN PUTNAM, 245 *W. 75th St.*, NEW YORK CITY.

MARGARET THOMAS CAREY, A.B. (MRS. ANTHONY MORRIS CAREY), 832
Eutaw Street, BALTIMORE.

EMILY GREENE BALCH, A.B., *Prince Street, Jamaica Plain*, BOSTON.

ANNE TAYLOR SIMPSON, A.B. (MRS. FRANK H. SIMPSON), *College Hill*,
CINCINNATI.

CATHARINE BEAN COX, A.B. (MRS. ISAAC M. COX), SAN JOSÉ, CAL.

ALYS WHITALL PEARSALL SMITH, A.B., 40 *Grosvenor Road S.W.*, LONDON,
ENGLAND.

The Secretary of the College will answer enquiries in regard
to the College.

FELLOWS AND GRADUATE STUDENTS IN RESIDENCE, 1893-94.

HELEN BARTLETT, *Fellow in English.*

Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882-84, and 1890; A.B., Bryn Mawr College, 1892, and A.M., 1893. Graduate Student in English, Bryn Mawr College, 1892-93.

JANE LOUISE BROWNELL, *Fellow in History.*

Bristol, Conn. A.B., Bryn Mawr College, 1893.

THÉRÈSE F. COLIN, *Fellow in Romance Languages.*

New York City. Diplômée et agréée, Collège de Neuchâtel, 1875. A.M., Leland Stanford, Jr., University, 1893.

ELIZABETH MARY FAIRCLOUGH, *Fellow in Greek.*

Hamilton, Ont. A.B., McGill University, 1893.

RUTH GENTRY, *Fellow by Courtesy in Mathematics.*

Stilesville, Ind. Ph.B., University of Michigan, 1890; Fellow in Mathematics, Bryn Mawr College, 1890-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, 1891-92; University of Berlin, 1891-92; Sorbonne, 1892; Fellow in Mathematics, Bryn Mawr College, 1892-93.

ADA ISABEL MADDISON, *Fellow in Mathematics.*

Reading, England. University of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Greats, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892-93; B.Sc., University of London, Mathematical Honors, 1893; Garrett European Fellow for 1894-95.

ELIZABETH NICHOLS, *Fellow in Biology.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1893.

EMMA HARRIET PARKER, *Fellow in Chemistry.*

Charlestown, N. H. B.S., Smith College, 1887. Graduate Student, Bryn Mawr College, 1892-93.

HELEN WINNIFRED SHUTE, *Fellow in Teutonic Philology.*

Exeter, N. H. A.B., Smith College, 1887. Assistant in German, Smith College, 1887-93.

WINIFRED WARREN, *Fellow in Latin.*

Cambridge, Mass. A.B., Boston University, 1891.

*ELIZA RAYMOND ADAMS, *Political Science.*

Indianapolis, Ind. A.B., Bryn Mawr College, 1893.

EMMA LOUISE ATKINS, *Chemistry.*

Indianapolis, Ind. A.B., Bryn Mawr College, 1894.

BESSIE BAKER, *German.*

Lafayette, Ind. B.S., Purdue University, 1886. Assistant, Bryn Mawr College Library, 1893-94.

DORA BARR, *English.*

New Wilmington, Pa. B.S., Westminster College, 1892.

STELLA BASS, *English.*

Evanston, Ill. Ph.B., North Western University, 1889.

ESTHER F. BYRNES, *Garrett Scholar in Biology.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1891. Demonstrator in the Biological Laboratory, Vassar College, 1891-93.

BEULAH WALTER DARLINGTON, *Latin and English.*

West Chester, Pa. A.B., Swarthmore College, 1890. Teacher in Friends' Graded School, West Chester, Pa., 1890-93.

- ESTHER FRIEDLANDER, *Garrett Scholar in Greek.*
Minneapolis, Minn. A.B., University of Minnesota, 1892, and A.M., 1893.
- CLARIBEL GARDNER, *Greek and Mathematics.*
Lotus, Ind. A.B., Earlham College, 1893.
- ANNA GODDARD, *Political Science.*
Muncie, Ind. B.L., Earlham College, 1891. Graduate Student in History, Bryn Mawr College, 1891-92.
- LEAH GOFF, *Biology.*
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Graduate Student in Biology, Bryn Mawr College, 1889-90. Assistant Demonstrator in Biology, Bryn Mawr College.
- JANE BOWNE HAINES, *Sociology.*
Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892; Graduate Student in History and Political Science, Bryn Mawr College, 1891-92; Fellow in History, Bryn Mawr College, 1892-93.
- MARY BAILEY HEATH, *English and German.*
Bryn Mawr, Pa. B.L., Ohio Wesleyan University, 1893.
- FLORENCE V. KEYS, *English.*
Toronto, Canada. A.B., University of Toronto, 1891; Fellow in Greek, Bryn Mawr College, 1891-92; Fellow in English, Bryn Mawr College, 1892-93; Reader in English, Bryn Mawr College, 1893-94.
- CAROLINE W. LATIMER, *Chemistry and Physiology.*
Baltimore, Md. M.D., Woman's Medical College of Baltimore, 1890; Post-Graduate Medical Course, Johns Hopkins Hospital, 1890-91; Graduate Student, Bryn Mawr College, 1891-94.
- ELVA LEE, *English.*
Randolph, N. Y. A.B., Bryn Mawr College, 1893.
- MARY H. LEWIS, *History and Political Science.*
Albion, Iowa. A.B., Penn College, 1893.
- DOROTHY WILBERFORCE LYON, *Garrett Scholar in English.*
Elizabeth, N. J. A.B., Wells College, 1887. Graduate Student, Bryn Mawr College, 1887-89, 1892-93.
- FANNY LOWATER, *Physics.*
Nottingham, England. University College, Nottingham, England, 1888-1891, 1892-93; Newham College, University of Cambridge, England, 1891-92; Student Assistant in Physics, Bryn Mawr College, 1893-94.
- MARY TAYLOR MASON, *Mathematics.*
Germantown, Pa. A.B., Bryn Mawr College, 1892; Teacher of History in Mrs. E. L. Head's School, Germantown, Pa., and Graduate Student in Sociology, Bryn Mawr College, 1892-93.
- NELLIE NEILSON, *English and History.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1893.
- HELEN SLEEPER PEARSON, *Mathematics.*
Boston, Mass. A.B., Smith College, 1881, and A.M., 1883; Graduate Student, Bryn Mawr College, 1891-93.
- VIRGINIA RAGSDALE, *Mathematics and Physics.*
Jamestown, N. C. B.S., Guilford College, 1892.
- ANNA ELY RHODS, *Garrett Scholar in Biblical Literature.*
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Graduate Student in Greek, Bryn Mawr College, 1889-90; University of Leipsic, 1890-91.
- HELEN J. ROBINS, *English.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1892. Secretary to the Dean, Bryn Mawr College, 1892-93; Teacher of History and English Literature in Mrs. Edward Robins' School, Philadelphia; Teacher of Special Class in English Literature, Miss Case and Miss Halliwell's School, Philadelphia.

- AMY CORDOVA ROCK, *Chemistry*.
Washington, D. C. A.B., Bryn Mawr College, 1893. Student-Assistant in Chemistry, Bryn Mawr College, 1893-94.
- EDITH F. SAMPSON, *Biology*.
Germantown, Pa. A.B., Bryn Mawr College, 1890; Graduate Student in Biology, Bryn Mawr College, 1891-93.
- LILIAN VAUGHAN SAMPSON, *Biology*.
Germantown, Pa. A.B., Bryn Mawr College, 1891. Holder of the Bryn Mawr European Fellowship, 1891-92; Graduate Student in Biology, Bryn Mawr College, 1891-92; Student in Biology, University of Zürich, 1892-93.
- LUELLE H. THORNE, *Garrett Scholar in Greek*.
Skaneateles, N. Y. A.B., Bryn Mawr College, 1890. Teacher in Jamaica School, Long Island, 1890-92; Teacher in Friends' School, Union Springs, N. Y., 1892-93.
- INEZ LORENA TAGGART, *English*.
Walton, Kansas. A.B., University of Kansas, 1890, and A.M., 1892. Teacher of English in High School, Arkansas City, Kansas, 1890-93.
- LOUISE WILLIE TULL, *Greek and Latin*.
Fairmount, Md. A.B., Woman's College, Baltimore, 1893.
- SUSAN GRIMES WALKER, *Sociology*.
Boston, Mass. A.B., Bryn Mawr College, 1893. Secretary to the Dean, Bryn Mawr College, 1893-94.
- CORA E. WHITE, *Mathematics*.
Belvidere, N. C. B.S., Guilford College, 1893.
- JULIA S. WHITE, *Mathematics*.
Belvidere, N. C. B.S., Guilford College, 1890.

FORMER FELLOWS.

The Bryn Mawr European Fellowship was established by the Trustees in 1885, and has been held in successive years by the following graduates of Bryn Mawr College:

- EMILY GREENE BALCH, *Bryn Mawr European Fellow*, 1889-90.
Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Student in Political Science, Collège de France and the Sorbonne, 1890-91.
- KATHARINE MORRIS SHIPLEY, *Bryn Mawr European Fellow*, 1890-91.
Cincinnati, O. A.B., Bryn Mawr College, 1890. University of Leipsie, 1890-91; Collège de France and the Sorbonne, 1891-92.
- LILIAN VAUGHAN SAMPSON, *Bryn Mawr European Fellow*, 1891-92.
Germantown, Pa. A.B., Bryn Mawr College, 1891. Graduate Student in Biology, Bryn Mawr College, 1891-92; Student in Biology, University of Zürich, 1892-93; Graduate Student in Biology, Bryn Mawr College, 1893-94.
- ANNIE CROSBY EMERY, *Bryn Mawr European Fellow*, 1892-93.
Ellsworth, Me. A.B., Bryn Mawr College, 1892. Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93. Student in Classics, University of Leipsie, 1893-94.
- LOUISE SHEFFIELD BROWNELL, . . . *Bryn Mawr European Fellow*, 1893-94.
New York City. A.B., Bryn Mawr College, 1893. Student in Greek and English, University of Oxford, England, and University of Leipsie, 1893-94.

A fellowship in Greek was established by the Trustees in 1885, and has been held in successive years by the following students:

- KITTY AUGUSTA GAGE, 1885-86.
Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, New York.
- SARAH E. SATTERTHWAITE LESLIE,* 1886-87.
Marine City, Michigan, A.B., University of Michigan, 1886.
- HELEN L. LOVELL, 1887-88.
Flint, Michigan. A.B., University of Michigan, 1887. Teacher of Greek and Latin at Girls' Classical School, Indianapolis, Ind., 1889-90; Associate Professor of Greek and Latin, Woman's College, Baltimore, Md.
- KATE MAY EDWARDS, 1888-89.
Ithaca, New York. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College, 1889-93.
- SUSAN BRALEY FRANKLIN, 1889-90.
Newport, R. I. A.B., Bryn Mawr College, 1889. Graduate Student in Greek, Bryn Mawr College, 1890-92; Fellow by Courtesy in Greek, 1891-92; Holder of the American Fellowship of the Association of Collegiate Alumnae, 1892-93; accepted as candidate for the Degree of Ph.D., Bryn Mawr College, 1893; Instructor in Latin, Vassar College.
- ELIZABETH HARRIS, 1890-91.
Germantown, Pa. A.B., Bryn Mawr College, 1890. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and Latin at Miss Florence Baldwin's School, Bryn Mawr, Pa.
- FLORENCE V. KEYS, 1891-92.
Toronto, Canada. A.B., Toronto University, 1891. Fellow in English, Bryn Mawr College, 1892-93; Reader in English, Bryn Mawr College.
- EMILY W. C. FRANCE, 1892-93.
Tysley, near Birmingham, England. Mason's College, Birmingham, England, 1885-87; Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892. Fellow, Chicago University.
- ELIZABETH MARY FAIRCLOUGH, 1893-94.
Hamilton, Ont. A.B., McGill University, 1893.

A fellowship in Latin was established by the Trustees in 1892, and has been held in successive years by the following students:

- ESTHER B. VANDEMAN, 1892-93.
Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892. Instructor in Latin, Wellesley College.
- WINIFRED WARREN, 1893-94.
Cambridge, Mass. A.B., Boston University, 1892.

A fellowship in English was established by the Trustees in 1885, and has been held in successive years by the following students:

- MARY GWINN, 1885-87.
Baltimore, Md. University of Leipsic, 1879-82; University of Zürich, 1882; Bryn Mawr College, 1887-88. Ph.D., Bryn Mawr College, 1888. Associate Professor of English, Bryn Mawr College.
- GERTRUDE H. MASON, 1887-88.
San José, Cal. Ph.B., University of Michigan, 1876. Teacher of English in Petahuma High School.

* Mrs. Francis Alexander Leslie, 1890.

- IDA WOOD, 1888-89.
Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Graduate Student at Bryn Mawr College, 1887-88; Fellow by Courtesy in English, Bryn Mawr College, 1890-91; and Ph.D., 1891. Secretary of the Woman's Department of the University of Pennsylvania, 1892-93.
- MABEL PARKER CLARK, 1889-90.
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English and Graduate Student in English and French, Bryn Mawr College, 1890-93; Graduate Student in English and French, Columbia College, 1893-94.
- KATHARINE MERRILL, 1890-91.
Abilene, Kansas. A.B., Kansas State University, 1889. Graduate Student at Bryn Mawr College, 1889-90; Harvard Annex, 1891-92; Assistant Professor of English Literature, University of Illinois.
- MARGUERITE SWEET, 1891-92.
Albany, N. Y. A.B., Vassar College, 1887. Graduate Student, Bryn Mawr College, 1889-90; and Graduate Scholar, 1890-91; Ph.D., Bryn Mawr College, 1892; Instructor in English, Vassar College.
- FLORENCE V. KEYS, 1892-93.
Toronto, Canada. A.B., Toronto University, 1891. Fellow in Greek, Bryn Mawr College, 1891-92; Reader in English, Bryn Mawr College.
- HELEN BARTLETT, 1893-94.
Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882-84, and 1890; A.B., Bryn Mawr College, 1892, and A.M., 1893. Graduate Student, Bryn Mawr College, 1892-93.

A fellowship in Teutonic Languages was established by the Trustees in 1893, and has been held during the year 1893-94 by :

- HELEN WINNIFRED SHUTE, 1893-94.
Exeter, N. H. A.B., Smith College, 1887. Instructor in German, Smith College, 1887-93.

A fellowship in Romance Languages was established by the Trustees in 1893, and has been held during the year 1893-94 by :

- THÉRÈSE F. COLIN, 1893-94.
New York City. Collège de Neuchâtel; University of the City of New York; Leland Stanford, Jr., University, 1892-93; A.M., Leland Stanford, Jr., University, 1893.

A fellowship in History and Politics was established by the Trustees in 1885, and has been held in successive years by the following students:

- JANE M. BANCROFT ROBINSON*, 1885-86.
West Stockbridge, Mass. Ph.B., Syracuse University, 1877; Ph.M., 1880, and Ph.D., 1884. Professor of French Language and Literature, Northwestern University, Evanston, Ill., 1877-85; University of Zürich, 1886-87, and Collège de France and the Sorbonne, 1888.
- LUCY M. SALMON, 1886-87.
Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883-86; Associate Professor of History, Vassar College.
- CORA AGNES BENNESON, 1887-88.
Quincy, Ill. A.B., University of Michigan, 1878; LL.B., 1880, and A.M., 1883.

* Mrs. George O. Robinson, 1891.

- HANNAH ROBIE SEWALL, 1888-89.
St. Paul, Minn. A.B., University of Minnesota, 1884. A.M., University of Michigan, 1887;
Fellow by Courtesy in History, Bryn Mawr College, 1889-90.
- ELEANOR LOUISA LORD, 1889-90.
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890. Instructor in History, Smith
College.
- AGNES MATHILDE WERGELAND, 1890-91.
Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, Munich, 1884-86;
University of Zürich, 1888-90; Ph.D., University of Zürich, 1890. Reader in History of
Art, Bryn Mawr College, 1891-93.
- CAROLINE MILES, 1891-92.
Carthage, Ind. A.B., Earlham College, 1887. Michigan University, 1889-91, and A.M., 1890.
Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888-89; Instructor in History
and Philosophy, Mount Holyoke College, 1892-93. Instructor in History, Wellesley College.
- JANE BOWNE HAINES, 1892-93.
Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in
History and Political Economy, Bryn Mawr College, 1891-92; Graduate Student in
Sociology, Bryn Mawr College, 1893-94.
- JANE LOUISE BROWNELL, 1893-94.
Bristol, Coun. A.B., Bryn Mawr College, 1893.

A fellowship in Mathematics was established by the Trustees
in 1885, and has been held in successive years by the following
students :

- ELLA C. WILLIAMS, 1885-86.
Watkins, N. Y. A.M., University of Michigan, 1880; studied under Professor Schwartz of
Göttingen, nineteenth months, 1883-85; in residence at Newnham College during the spring
term of 1884. Teacher of Mathematics in Miss Moses' School, New York City, 1886-87;
Teacher in State Normal School, Plymouth, N. H.
- ANNE A. STEWART, 1886-87.
West Bay, Nova Scotia. Studied in University College, London, 1880-82; B.Sc., Dalhousie
College, Halifax, Nova Scotia, 1886. Teacher of Mathematics in Miss Mary E. Stevens'
School, Germantown, Pa., 1887-93; Student in Mathematics and Physics, Newnham College,
University of Cambridge, England, 1893-94.
- ELIZABETH MILLER BLANCHARD, 1889-90.
Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in The Bryn Mawr
School, Baltimore, Md., 1891-92.
- RUTH GENTRY, 1890-91.
Stilesville, Ind. Ph.B., University of Michigan, 1890.
- MARY FRANCES WINSTON, 1891-92.
Forreston, Ill. A.B., University of Wisconsin, 1889. Teacher of Mathematics, Downer Col-
lege, Wisconsin, 1889-91.
- RUTH GENTRY, 1892-93.
Stilesville, Ind. Ph.B., University of Michigan, 1890. Fellow in Mathematics, Bryn Mawr
College, 1890-91; Holder of the European Fellowship of the Association of Collegiate
Alumnae, 1891-92; studied, University of Berlin, 1891-92; Fellow by courtesy in Mathe-
matics, Bryn Mawr College, 1893-94.
- ADA ISABEL MADDISON, 1893-94.
Reading, England. University of South Wales and Monmouthshire, 1885-89; Girton College,
Cambridge, England, 1889-92; Mathematical Tripos (1st class), 1892; Oxford Greats, 1892;
Graduate Student in Mathematics, Bryn Mawr College, 1892-93; B.Sc., University of Lon-
don, Mathematical Honors, 1893. Garrett European Fellow, 1894-95.

A fellowship in Chemistry was established by the Trustees in 1893, and has been held during the year 1893-94 by:

EMMA HARRIET PARKER, 1893-94.
Charlestown, N. H. B.S., Smith College, 1887. Graduate Student in Chemistry, Bryn Mawr College, 1892-93.

A fellowship in Biology was established by the Trustees in 1885, and has been held in successive years by the following students:

EFFIE A. SOUTHWORTH, 1885-86.
North Collins, N. Y. S.B., University of Michigan, 1885. Fellow in Biology, Bryn Mawr College, 1885-86, and Student-Assistant in the Biological Laboratory, 1886-87; Assistant Mycologist of the United States Agricultural Bureau, Washington, 1887-92; Assistant in Botany, Barnard College, 1892-94.

MARCELLA I. O'GRADY, 1887-89.
Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in The Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator, Biological Laboratory, Bryn Mawr College, 1888-89; Associate Professor of Biology, Vassar College.

HARRIET RANDOLPH, 1889-90.
Philadelphia, Pa. A.B., Bryn Mawr College, 1889. University of Zürich, 1890-92; Ph.D., University of Zürich, 1892; Demonstrator in Biology and Reader in Botany, Bryn Mawr College.

JEAN K. HOWELL, 1891-92.
Painted Post, N. Y. Ph.B., Cornell University, 1888, and M.S., 1890. Assistant in Botany, Barnard College.

IDA H. HYDE, 1892-93.
Chicago, Ill. S.B., Cornell University, 1891. Student-Assistant and Graduate Student in Biology, Bryn Mawr College, 1891-92; Holder of the European Fellowship of the Association of Collegiate Alumnae, 1893-94.

ELIZABETH NICHOLS, 1893-94.
Philadelphia, Pa. A.B., Bryn Mawr College, 1893.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, a physician, merchant and member of the Society of Friends, who purposed founding an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

Three classes of persons are admitted to the lectures and class-work of the college:—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately.

Regulations of the Graduate Department.

In the opinion of the Trustees of Bryn Mawr College a college should differ from a university not in the extent or thoroughness of the instruction given in the subjects which it professes to teach, but in the range of instruction and in the number of its schools or faculties; and it has from the beginning been their policy to organise no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years leads to the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one year and offered as one of the minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may enroll themselves either as special students or as candidates for a second degree; in either case they must consult with the President in regard to the courses they are to pursue, and must be duly registered for those courses at the President's office.

All the graduate and undergraduate courses of the College are open to graduate students. Since the graduate courses presuppose, as a rule, the undergraduate courses, the instructors in the several departments may require of the graduate student certain introductory or auxiliary studies to be pursued in the undergraduate department.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiency in this respect.

Besides attending the graduate courses of the college the graduate student may devote herself to special courses of reading and investigation under the guidance of the several instructors; and her needs will be considered in the arrangement of new courses of lectures.

Fellowships and Scholarships.

The most distinguished place among graduate students will be held by the Fellows, who must reside in the College during the academic year. Nine resident Fellowships, of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic Philology, one in Romance Languages, one in Mathematics, one in History or Political Science, one in Biology, and one in Chemistry. These Fellowships, which do not exempt the holder from the usual charges for tuition, board and room-rent, are intended as an honor and are awarded in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college

*The certificates of the Harvard Annex, and of the women's colleges of the English Universities of Oxford and Cambridge, will be regarded as equivalent to a first degree,—*i.e.*, to the degree of Bachelor of Arts.

of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors ; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of March preceding the year for which the Fellowship is desired. Blank forms for application will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

The Garrett European Fellowship, of the value of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental, is open for competition to all students still in residence who have for two years pursued graduate studies at Bryn Mawr College. The choice of a university may be determined by the holder's own preference, subject to the approval of the College. This Fellowship was founded in 1894 by Miss Garrett, of Baltimore.

The Garrett Graduate Scholarships, five in number, of the value of two hundred dollars each, may, on the recommendation of the head of the department in question, be awarded to the candidate next in merit to the successful candidates for the Fellowships, or to other graduate students.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll

themselves as candidates for the Degree of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may have been recommended.

The candidate must have pursued for three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written or a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the President, by whom, after due consultation with the heads of the departments concerned, it will be submitted to the Faculty.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and the degree of Doctor of Philosophy will be given to no one who cannot read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candidate before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

The Degree of Master of Arts.

A separate degree of Master of Arts will be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to twelve hours weekly, or graduate courses equivalent to twelve hours weekly. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, special students, and hearers, and is payable in advance. An additional charge of fifteen dollars a year is made for materials in every laboratory course of five hours weekly throughout the year.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

Residence.

Residence in the College buildings is optional. Of the students in daily attendance at the lectures and class work of the College, some have always lived in Philadelphia, or in the neighborhood of Bryn Mawr; others have resided in the College for five days of the week. The expense of board and residence in the College halls is two hundred and seventy-five dollars, three hundred dollars, three hundred and twenty-five dollars, or in special cases

three hundred and fifty, three hundred and seventy-five or four hundred dollars, according to the room or rooms occupied by the student. Of this sum one hundred and fifty is the charge for board, and is payable half-yearly in advance; the remainder is room rent, and is payable yearly in advance. Room rent includes all expense of service, heating and light, except open fires and laundry work.

The health of the students is under the charge of Dr. Ida E. Richardson, a physician practising in Philadelphia, who visits the College every week, and can then be consulted by all the students free of charge.

Plans of Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls has its separate kitchen and dining hall, provides accommodations for about sixty students, and is under the charge of a resident Mistress. In each Hall of Residence a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings or corridors. In Denbigh Hall a large suite of rooms is reserved for the use of the Graduate Club, organised by the graduate students in 1894, and composed of the entire body of resident graduates. Application for rooms should be made as early as possible. Since the demand for College rooms is very great, and every room unnecessarily reserved may prevent some other student from entering College, a deposit of fifteen dollars, which will be deducted from the first College bill, is required before a room is assigned.

A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year.

All students reserving rooms who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, will be responsible for the rent of the room for the entire academic year.

The rooms are completely furnished. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge (\$18 for one dozen pieces a week) is made for washing (see the descriptions of Merion Hall, Radnor Hall, Denbigh Hall and Pembroke Hall) when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars, weekly, according to the rooms occupied. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

The charge for tuition is accordingly \$100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is \$125, \$150, \$175 (or in special cases, \$200, \$250) a year, payable in advance.

The charge for board is \$150 a year; one half payable in advance.

The charge for board, residence and tuition is, therefore, \$375, \$400 or \$425 (or in special cases \$450, \$475, \$500) a year; the additional charges are \$15 for every laboratory course of five hours weekly.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It will be applied to the assistance of those students only who have attended courses in the College for at least one year. The Fund is managed by a committee consisting of the President and Dean and three representatives of the Association of Bryn Mawr College Alumnae. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The officers for the year 1893-94 are as follows: Chairman, Miss Mary McMurtrie; Secretary and Treasurer, Miss Mary T. Mason, School Lane, Germantown, Philadelphia. Contributions may be sent to any member of the committee.

Libraries.

The fact that the college is at a distance of only ten miles from Philadelphia, which may be reached by half-hourly trains in from twenty to thirty minutes, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the College proper.

The College Library, accordingly, will remain as far as possible a library for special study. There are at present on its shelves thirteen thousand three hundred and twenty-four bound volumes, and the Classical Library of the late Professor Sauppe, of Göttingen, containing nine thousand bound volumes and seven thousand doctors' dissertations and pamphlets, has been purchased for the

College, and will be ready for use within the next few months. The library of the late Professor Amiaud, of Paris, was acquired in 1892, and at present forms part of the library of the College. It is a good working library for the student in every department of Semitic study. A more detailed description of these two collections may be found on pages 26 and 37 of this pamphlet.

In 1893 a number of special reading rooms for graduate students were added to the library, and the books referred to in the graduate work of the different departments are reserved in these seminary rooms. Each of the scientific departments has a special library and reading-room in Dalton Hall.

The sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments, and in addition to many gifts of books more than four thousand dollars has been presented to the library during the past six years for expenditure in special departments. One hundred and forty-six scientific, literary, and philological periodicals and reviews in the English, German, French, Italian, Norse and Swedish languages, are taken by the library, as follows:

Academy; Acta Mathematica; American Chemical Journal; American Economic Association publications; American Journal of Archaeology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology; American Journal of Science; American Naturalist; Andover Review; Anglia; Annalen der Physik und Chemie; Annals of the American Academy of Political and Social Science; Annales de l'Ecole Normale Supérieure; Archiv für Anatomie und Physiologie; Archiv für die Gesamte Physiologie; Archivio Glottologico Italiano; Archiv für Latein. Lexicographie; Archiv für neueren Sprachen und Litteraturen; Arkiv för Nordisk Filologi; Athenæum; Atlantic Monthly; Babylonian and Oriental Record; Beiträge der Deutschen Sprache und Litteratur; Beiträge zur Kunde der Indogermanischen Sprachen; Biblical World; Bibliotheca Mathematica; Bibliotheca Philologica Classica; Biologisches Centralblatt; Botanisches Centralblatt; Bulletin de Correspondance Hellénique; Bulletin of the New York Mathematical Society; Centralblatt f. Physiologie; Century Magazine; Chemical News; Classical Review; Comptes Rendus des Académies des Sciences; Contemporary Review; Coöperative Index to Periodicals; Deutsche Literaturzeitung; Deutsche Zeitschrift für Geschichtswissenschaft; Dial; Dialect Notes; Economic Journal; Economic Review; Electrician; Englische Studien; English Historical Review; Expositor; Fortnightly Review; Forum; Germania; Göttingische Gelehrte Anzeigen; Harper's Magazine; Hartford Seminary Record; Harvard University Bulletin; Haverford College Studies; Hebraica; Hermes; Historische Zeitschrift; Independent; Indian Antiquary; Indogermanische Forschungen; International Journal of Ethics; Jahresbericht Germanischen Philologie; Jahresbericht über die Alterthumswissenschaft; Jahresbericht über die Fortschritte der Chemie; Jahrbuch für Gesetzgebung; Johns Hopkins University Studies; Journal of the American Oriental Society; Journal of Biblical Literature; Journal of Morphology; Journal de Mathématiques; Journal für die reine u. angewandte Mathematik; Journal für Practische Chemie; Journal of Hellenic Studies; Journal of the Chemical Society; Journal of the Microscopical Society; Journal of Philology; Journal of Physiology; Kryptogamen Flora; Library Journal; Library Notes; Literarisches Centralblatt; Literary News; Literaturblatt für Germ. u.

Rom. Philologie; London Weekly Times; Mathematische Annalen; Messenger of Mathematics; Mind; Modern Language Notes; Mittheilungen der Archæologischen Instituts; Mittheilungen der Englischen Sprache und Litteratur; Mittheilungen aus der Zoologischen Station zu Neapel; Monatshefte für Chemie; Nachrichten von der Königlichen Gesellschaft der Wissenschaften; Nation; North American Review; Nature; Neue Jahrbücher für Philologie u. Pädagogik; Ninetcenth Century; Old and New Testament Student; Outlook; Philologische Wochenschrift; Philosophical Magazine; Philosophical Review; Philosophische Studien; Political Science Quarterly; Popular Science Monthly; Proceedings of the Academy of Natural Sciences; Proceedings of London Mathematical Society; Proceedings of the Royal Society; Psychological Review; Publications of the Modern Language Association; Publications of the American Statistical Association; Quarterly Journal of Economics; Quarterly Journal of Mathematics; Quarterly Journal of Microscopical Science; Quarterly Review; Quellen und Forschungen; Review of Reviews; Revue Bleue; Revue Celtique; Revue Historique; Revue Philosophique; Rheinisches Museum für Philologie; Romania; Romanische Forschungen; Science; Scribner's Magazine; Spectator; Transactions of American Philological Association; Westminster Review; Wochenschrift für Klassische Philologie; Zeitschrift für Deutsches Alterthum; Zeitschrift für Deutsche Philologie; Zeitschrift für Physikalische Chemie; Zeitschrift für Anorganische Chemie; Zeitschrift für Assyriologie; Zeitschrift für französische Sprache; Zeitschrift für Psychologie; Zeitschrift für Wissenschaftliche Zoologie; Zeitschrift für Romanische Philologie; Zeitschrift für Vergleichende Sprachforschung; Zoologischer Anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the college. Private subscription, \$12 a year for eight volumes, or \$10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, \$6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Courses of Study.

There will be offered each year major or two-year courses of five hours weekly in the following subjects: Greek, Latin, English, German, French, Italian and Spanish, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, and Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Latin, Old French, Italian, Spanish, and other Romance Languages, Gothic and Teutonic Philology, Old Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic and Slavonic Languages, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, Morphology, Physiology, and Physiological Chemistry.

The graduate courses are as follows :

Sanskrit, Greek, and Latin.

Professors and Instructors: Dr. Edward Washburn Hopkins, Dr. Herbert Weir Smyth, Mr. William Cranston Lawton, Dr. Gonzalez Lodge, Dr. George A. Barton.

In 1894 by the acquisition of the famous collection of the late Prof. Hermann Sauppe, the College became possessed of one of the largest and best selected classical libraries in America. During the sixty years from 1833 to 1893 in which Professor Sauppe was Professor of Classical Philology at Zürich, Weimar, and Göttingen successively, he brought together with great care and perseverance a library of 9000 bound volumes and more than 7000 unbound Doctor's Dissertations, Programs, and Monographs, from which scarcely any important edition of any Greek or Latin author is missing. It is especially rich in inscriptions, in works on Plato and the Greek orators, on Plautus, Terence, Horace and Tacitus. Among the editions of Plautus is to be found one of the four copies known to be in existence of the so-called edition of Hermolaus, referred to by Ritschl, *Parerga*, p. 403, n., *Opuscula II.*, p. 47, which is supposed to have appeared between 1493 and 1499. Among the journals are complete sets of the publications of the Academies of Berlin, Leipsic, Munich, Vienna, and Göttingen, *Hermes*, *Philologus*, *Rheinisches Museum*, *Mnemosyne*, *Bezzenberger's Beiträge*, *Zeitschrift für Alterthumswissenschaft*, *Ephemeris Epigraphica Latina*, *Zeitschrift für Numismatik*, *Mittheilungen der Arch. Inst. zu Athen* and *zu Rom.*, *Ἐφημερίς ἀρχαιολογική*. The library contains also an excellent collection of "Scripta Philologorum." Many of the volumes are enriched with autograph notes by Professor Sauppe.

Sanskrit and Comparative Philology.

The instruction in Sanskrit and Comparative Philology is under the direction of Dr. Edward Washburn Hopkins, Professor of Greek, Sanskrit and Comparative Philology.

GRADUATE COURSES.

Dr. Hopkins offers the following graduate courses :

Lectures on Comparative Philology, and Philological Seminary,

Once weekly throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit will also be of great aid to the student. The lectures on Comparative Philology will treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student will be introduced to the latest theories and discoveries in Aryan phonetics, and will be expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method will be pursued during the investigation of the history of forms; and in the third part of the course the student will begin the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Beginners' Sanskrit,

Once weekly throughout the year.

This course will consist mainly of Sanskrit grammar, with selections from Lanman's Reader.

Introduction to Zend and the Zend-Avesta,

The number of hours will be determined later

Greek.

The instruction in Greek is under the direction of Dr. Edward Washburn Hopkins, Professor of Greek, Sanskrit and Comparative Philology, Dr. Herbert Weir Smyth, Professor of Greek, Mr. William Cranston Lawton, Professor of Greek and Latin Literature, and Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

GRADUATE COURSES.

The graduate courses in Greek are varied from year to year (Lyric Poetry, Attic Tragedy, The Historians, The Orators, and Plato), in order that they may be pursued by the student for several successive years. Three of these courses are required of students who offer Greek as a major subject for the degree of Doctor of Philosophy; two are required when Greek is the only minor subject offered, and one when there are two minors. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department; and reports of work thus read will from time to time be required of the students.

Students taking the graduate course in Greek are expected also to follow Dr. Hopkins' one-hour course in comparative philology (see p. 27).

Dr. Smyth offers the following graduate course :

Attic Tragedy,

Four times weekly throughout the year.

This course will consist of the reading of the entire works of Æschylus, and the critical interpretation of a selected portion. One hour a week is set apart for Seminary work on the text of a single play, two hours to translation and a running commentary upon the other tragedies, and to lectures upon various subjects connected with the drama (style, vocabulary, syntax, dialect, metres, etc.). The fourth hour (during the first semester only) will be devoted to the study of Aristotle's *Poetics*. Each member of the class will write, during the year, one or more papers on special topics. Students taking this course are expected to provide themselves in advance with Paley's *Æschylus* (Bibliotheca Classica edition), Haigh's *Attic Theatre* (Macmillan & Co.), and Schmidt's *Rhythmic and Metric*, translated by Prof. White (Ginn & Co.).

Dr. Smyth will offer the following graduate course in 1894-95:

Attic Orators,

Four times weekly throughout the year.

This course will consist of the reading of large portions of all the Orators and the critical interpretation (in the Seminary) of a selected part of each. Lectures will be given on the legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus will be studied. Students taking this course are expected to provide themselves with the Teubner text editions of Antiphon, Andocides, Lysias, Isocrates, Iseus, and Demosthenes.

The classical library is well equipped with works on the Orators, being provided with the collections of the late Prof. Sauppe, of Göttingen, joint editor of an edition of the Orators.

POST-MAJOR COURSES.

Dr. Hopkins offers the following post-major courses, open to graduate students :

1st Semester.

Demosthenes,

Twice weekly.

Lyric Poets and Theocritus, *Selections*,

Once weekly.

2nd Semester.

Sophocles, *Œdipus Tyrannus*,

Once weekly.

Dr. Smyth offers the following post-major course, open to graduate students :

2nd Semester.

Æschylus, *Agamemnon* and *Eumenides*,

Twice weekly.

Mr. Lawton offers in 1893-94 the following post-major courses, open to graduate students:

2nd Semester.

Plato's *Phædo*,

Twice weekly.

Dr. Barton offers the following post-major course open to graduate students :

New Testament Greek.

Twice weekly throughout the year.

This course will presuppose a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour weekly during the first semester will be devoted to a careful study of the text of one of the Gospels, and the other hour to lectures on the history of the New Testament text, both in its written and its printed form, on the helps extant for emending it, and the method of using them. In the second semester the subject of study will be the Epistles of Paul. The students will be expected to read privately during the first semester the text of one of the Gospels that has not been read in class, and during the second, either the Acts of the Apostles, the Apocalypse, or the Epistle to the Hebrews.

Dr. Hopkins will offer in 1894-95 the following post-major courses open to graduate students:

1st Semester.

Sophocles, *Selections*,

Twice weekly.

Lyric Poets and Theocritus, *Selections*,

Once weekly.

2nd Semester.

Æschylus, Prometheus,

Once weekly.

Latin.

The instruction in Latin is under the direction of Dr. Gonzalez Lodge, Associate in Latin, and Mr. William Cranston Lawton, Professor of Greek and Latin Literature.

GRADUATE COURSES.

Graduate work in Latin is conducted according to the Seminary method. One department of Latin Literature or one Latin author is selected each year as a subject of study. All the best and most recent editions, together with a large number of special treatises, dissertations, etc., are collected in the seminary library, and graduate students are encouraged to make themselves thoroughly acquainted with all the literature bearing upon the subject chosen. To this end the work is arranged along the following lines:

- a. Historical and Critical Lectures by the Instructor.
- b. Critical Interpretation of selected passages from the principal authors, by the students.
- c. Abstracts and Analyses of important dissertations and special treatises, by the students.
- d. Every student is expected to make, during the year, an original study of some subject connected with the work of the Seminary.

The courses are varied from year to year, in order to afford candidates for the degree of Doctor of Philosophy an opportunity of pursuing graduate work through three successive years.

Dr. Hopkins' one hour course in Comparative Philology, see page 27, forms the fifth hour of the graduate course in Latin.

Dr. Lodge offers the following graduate courses :

Latin Seminary : Roman Drama.

Three times weekly throughout the year.

The course consists of historical and critical lectures by the instructor and of critical interpretation of selected passages from the principal authors by the students ; abstracts and analyses of important dissertations and special treatises are presented by the students. Every student is expected to make during the year, an original study of some subject connected with the work of the Seminary.

Early Latin : Syntax of the Subordinate Sentence,

Once weekly throughout the year.

This course is subsidiary to the work of the Seminary. Allen's *Remnants of Early Latin* will be studied until Christmas, after which time the course will consist of lectures on Latin Syntax, treating especially the Subordinate Sentence.

Dr. Lodge will offer the following graduate courses in 1894-95:

Latin Seminary : Roman Historiography,

Three times weekly throughout the year.

This course will take the place of the course in Roman Drama, given 1893-94, and will be followed by a course in Roman Epistolography in 1895-96.

Early Latin : Syntax of the Verb,

Once weekly throughout the year.

This course will take the place of the course in Early Latin and Syntax of the Subordinate Sentence given in 1893-94. It will consist of the study of Rushforth's *Latin Historical Inscriptions*, followed by lectures on the Syntax of the Verb.

POST-MAJOR COURSES.

Dr. Lodge offers the following post-major courses, open to graduate students:

Plautus, *Three Plays*,

Twice weekly throughout the second semester.

Latin Prose Composition,

Once weekly throughout the year.

Mr. Lawton offers the following post-major courses, open to graduate students:

1st Semester.

Lucretius, *Selections from Books I., II., III., IV.*,

Twice weekly.

Cicero, *De Oratore*,

Twice weekly.

2nd Semester.

Catullus,

Twice weekly.

These courses will be varied from year to year, so that students so desiring may elect them for two successive years.

MODERN LANGUAGES.

Professors and instructors : Dr. M. Carey Thomas, Dr. Mary Gwinn, Dr. Hermann Collitz, Miss Rose Chamberlin, Dr. James Douglas Bruce, Dr. Joseph A. Fontaine, Mr. Frederic M. Page, Miss Florence V. Keys, Miss Abby Kirk, Madame Thérèse F. Colin.

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary Gwinn, Associate Professor of English, Dr. James Douglas Bruce, Associate in Anglo-Saxon, Miss Florence V. Keys, Reader in English, and Miss Abby Kirk, Reader in English. It includes two years of lectures on literature and language required of every candidate for a degree; two years of advanced English, which presupposes as much information as is contained in the required course, and may be elected in combination with the major course in any other language or as a free elective; and graduate courses in English literature, Essay-work, Anglo-Saxon, and Early English.

GRADUATE COURSES.

There will be offered each year two distinct graduate courses in English, one in literature and one in language, and these courses will be so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English Literature; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English Major.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least one course in essay-work.

The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

Dr. Thomas offers the following graduate courses:

The Elizabethan and Jacobean Drama,

Twice weekly throughout the year.

This course will not be given in 1893-94.

The time required for reading in connection with the lectures makes this course the equivalent of four hours weekly. During the first semester the Mystery and Miracle Plays and the chief works of the pre-Shakespearean Drama are read privately by the class and discussed in detail in the lectures and conferences, different plays being assigned to different members of the class for report and discussion. In the second semester Shakespeare's histories, and seven or eight of his other plays are read critically and the remaining plays are studied privately by the members of the class. The chief plays of the other Elizabethan and Jacobean dramatists are read in connection with the different periods of Shakespeare.

Dr. Gwinn offers the following graduate courses:

The Elizabethan and Jacobean Drama, and the Drama of the Restoration,

Three times weekly throughout the year.

This course will not be given in 1893-94.

This course, which is meant to be taken in connection with the course conducted by Dr. Thomas, deals in the first semester with the Critics of the Drama, and with Heywood; in the second semester with the dramatists of the Restoration. The time required for reading and for the preparation of written papers makes the course the equivalent of three hours weekly.

English Critics of Life: Burke, Carlyle, and Ruskin,

Three times weekly throughout the year.

This course corresponds to some extent to the course on English Essayists and Critics of the Nineteenth Century. Much of the work consists of private reading and the preparation of written papers. The class will, as a rule, meet twice weekly for discussion.

Review of Rhetorics,

Once weekly throughout the year.

This course may be taken by undergraduate students as a Free Elective, or may by permission be substituted for one hour of the first year's work of the Major Course in English. Mr. Herbert Spencer's Philosophy of Style, the main differences between the style of poetry and that of prose, and the main requisites of a prose style, as formulated by Coleridge, Matthew Arnold, Mr. Saintsbury, Mr. Pater, Professor Bain, Professor Minto, and other critics, the outlines of the historical development of English prose and the outlines of Greek and Roman rhetoric will be discussed in class.

Seventeenth Century Prose Writers,

Once weekly throughout the year.

This course may be taken by undergraduate students as a Free Elective, or may by permission be substituted for an hour of the First Year's work of the Major Course in English. The work will consist almost wholly of private reading and the preparation of short papers. Bacon, Hooker, and Walton will be studied in the first semester.

Dr. Bruce offers the following graduate courses:

Beowulf,

Once weekly throughout the year.

The critical reading of Beowulf is supplemented by lectures on the style of the Old English Epic and the chief theories concerning the composition of Beowulf; also, on questions of Teutonic origins suggested by the text. Especial attention is given to an exposition of the theories of the structure of Alliterative Verse.

Old English Phonology,

Once weekly throughout the year.

This course consists of lectures on the History of English Sounds in the Anglo-Saxon period with especial reference to their development out of the general Teutonic. It is intended as introductory to a similar course on the History of English Inflections.

Review of Anglo-Saxon Literature,

Once weekly throughout the year.

The various branches of Anglo-Saxon Literature are taken up in the same order of discussion as in the third division of Wülker's *Grundriss*, and the most important and most recent literature in the form of dissertations and articles in scientific periodicals on each poem or prose document, as the case may be, is assigned to members of the class for report and discussion. Lectures on subjects relating to particular pieces are, also, given from time to time.

Elene and Andreas,

Three times weekly throughout the year.

This course is primarily intended to give to students who have already made some advance in Old English a more general first-hand acquaintance with the best pieces of Anglo-

Saxon Literature, outside of *Beowulf*. It is accompanied by grammatical and metrical exercises. A similar course for the Middle English period is intended to succeed it.

Dr. Bruce will offer the following graduate courses in 1894-95 :

Middle English Phonology,

Once weekly throughout the year.

This course is designed as a continuation of the course on Old English Phonology given in preceding years. It consists of lectures on the History of English Sounds in the period named, with special reference to their development from the Anglo-Saxon. Practical exercises in the application of the laws expounded will accompany the lectures.

Dr. Thomas and Dr. Bruce offer the following graduate course:

English Seminary,

Two hours fortnightly throughout the year.

The most advanced graduate students in English are expected to unite with the instructors in the English seminary. Reports are assigned to individual members, which are then read and discussed by the whole seminary; and all the members of the seminary are required to make themselves familiar with the literature of the special topic selected for each meeting.

In the year 1892-93 the subject was Chaucer. The *Knight's Tale*, and subsequent treatments of the same theme in English Literature, were first studied comparatively, and the problems concerning the relation of this work to the older *Palamon and Arcite* were thoroughly discussed. The tales of the *Second Nun*, *The Clerk*, *Man of Law* and *Squire* were taken up in a similar manner; also, *The House of Fame*, *The Legend of Good Women*, and the *Roman of the Rose*. The work of the seminary consisted of reports by individual students, the literature of each subject being assigned at the close of the preceding meeting by the professor presiding. An attempt was made to secure an exhaustive examination of the literature of each successive subject, whether existing in English or in foreign books, articles or dissertations. After the reading of reports, the members of the seminary took part in a free and full oral discussion of the matter presented.

In the year 1893-94 the seminary is conducted by Dr. Bruce. The subject of the year is Anglo-Saxon Literature. The various branches of the Anglo-Saxon Literature are taken up in the same order of discussion as in the third division of Wülcker's *Grundriss*, and the most important and most recent literature in the form of dissertations and articles in scientific periodicals on each poem or prose document, as the case may be, is assigned to members of the class for report and discussion. Lectures on subjects relating to particular pieces are also given from time to time.

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, and Miss Rose Chamberlin, Reader in German.

GRADUATE COURSES.

Dr. Collitz offers the following graduate courses, open to post-major students, in addition to the courses offered under the head of General Teutonic Philology :

Middle High German Grammar and reading of Middle High German Texts,

Twice weekly throughout the year.

This course includes a brief abstract of Middle High German grammar, with especial reference to the difference between Middle High German and Modern German, and a study of the

most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the *Nibelungenfrage* and of the manuscripts of the *Nibelungenlied*. In the second semester Middle High German lyric poetry will be studied in selections from Walther von der Vogelweide and other Minnesingers, and from the Middle High German knightly epic poetry in the poetry of its three main representatives: Hartmann (*Iwein*), Wolfram von Eschenbach (*Parzival*), and Gottfried von Strassburg (*Tristan*).

This course is required of all students that make German the major subject in their examination for the degree of Doctor of Philosophy. The private reading will include the entire works of the authors treated in the course.

Miss Chamberlin will offer the following graduate course in
1894-95:

Middle High German,

Twice weekly throughout the year.

This course consists of the elements of Grammar and reading of the *Nibelungenlied*.

General Teutonic Philology.

The instruction in this department is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology. Special attention is called to the facilities for the study of Comparative Teutonic Philology offered in Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic Philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and that of general comparative philology.

There is still much opportunity for original work in Teutonic philology; and it is hoped that students who have completed the full course will be able to take an active part in it.

GRADUATE COURSES.

Dr. Collitz offers the following graduate courses:

Gothic,

Twice weekly throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. Students are recommended to use either Wright's or Braune's Grammar.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student in Teutonic grammar is advised to take this course as early as possible.

Old Norse,

Once weekly throughout the year.

This course is intended as an introduction to the study of Old Norse language and literature. As students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar, their attention will be called in the grammatical part of the course to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts to be read, selec-

tions from the younger and the older Eddas will take a prominent place. In connection with the latter, the old Teutonic heroic verse and Prof. Sievers' system of metrics will be explained.

Outlines of Teutonic Philology,

Once weekly throughout the year.

The study of Comparative Teutonic Philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic languages; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages. Together with Teutonic phonetics and inflection some problems of a more general character will be discussed, such as the question of relationship of dialects, of consistency of phonetic laws, etc.

ROMANCE LANGUAGES.

French.

The instruction in Romance languages is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, Mr. Frederic M. Page, Reader in Romance Languages, and Madame Thérèse F. Colin, Reader in Romance Languages.

GRADUATE COURSES.

The post-major and graduate courses in Old French, Romance Literature, and Philology will be varied from year to year, and the number of courses and the hours given to each course weekly will be determined by the needs of the students.

The graduate literary work is directed towards a special treatment of some such subjects as the development of early French theatre; French tragedy in the 18th century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French literature twice weekly throughout the two years of the major course in French.

Dr. Fontaine offers the following graduate courses:

Old French Phonetics,

Twice weekly throughout the year.

Old French Literature and Comparative Syntax,

Once weekly throughout the year.

French Drama,

Once weekly throughout the year.

Dr. Fontaine will offer the following graduate courses in 1894-95:

Critical reading of Old French Texts,

Twice weekly throughout the year.

This course includes the *Serments de Strasbourg*, *Contilène de Sainte Eulalie*, *Passion du Christ*, *Vie de Saint Léger*, *Vie de Saint Alexis*, and *Chanson de Roland*.

The private reading consists of one or two poems of *Chrétien de Troies*, *Aucassin et Nicolette*, and some early specimens of French prose.

French Philology (Morphology and Phonetics),

Once weekly throughout the year

Comparative study of Old and Modern French Syntax,

Once weekly throughout the year

Comparative Romance Philology (Morphology and Phonetics),

Once weekly throughout the year.

Comparative survey of French, Italian, and Spanish Literature,

Once weekly throughout the year.

Dramatic French Literature from its earliest period down to the 16th century,

Once weekly throughout the year.

Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

The courses in Italian and Spanish may be taken by undergraduate students, but are more frequently taken by graduate students:

(F)

Mr. Page offers the following courses:

FIRST YEAR.

(Minor Course.)

Italian,

Although the instruction, during the first year in Italian, must necessarily be linguistic rather than literary, the texts employed in class and for the private reading are of such quality and number as to lead the student to appreciate in a certain measure the range of modern Italian literature.

Besides a systematic course in Italian grammar and composition, the year's work includes the critical reading of Baredi's *Notte Bizzarra*; De Amicis' *Alberto*; thirty cantos selected from Dante's *Inferno* and *Purgatorio*; Pellico's *Francesca da Rimini*; also selections from Manzoni's *Promessi Sposi*; De Amicis' *Vita Militari*; and Tasso's *Gerusalemme Liberata*. As soon as practicable a certain amount of private reading is assigned.

Three times weekly throughout the year.

Spanish,

The first year's course in Spanish follows, as far as possible, the plan adopted in Italian. The material for class and private reading is mainly drawn from the works of nineteenth century authors, such as Fernan Caballero, Selgas, Valera, Castelar, etc.; but it also includes three dramas selected from the works of Lope de Vega, Calderon, and Alarcon.

Twice weekly throughout the year.

SECOND YEAR.

Italian,

The second year's course includes: a, a critical study of Dante's *Paradiso* and *Vita Nuova*, and selections from Ariosto's *Orlando Furioso*; and b, one representative drama from the works of Goldoni, Alfieri, and Manzoni, and a critical survey of the Italian literature of the beginning of the nineteenth century; also a survey of the Italian literature of the fourteenth and fifteenth centuries.

Three times weekly throughout the year.

A course of private reading is selected to represent the Italian literature of the first quarter of the nineteenth century.

Spanish,

Twice weekly throughout the year.

The principal subjects of study for the second year are drawn : *a*, from the Spanish literature of the seventeenth century, *i.e.*, the best works of Cervantes and the great dramatists ; and *b*, from the works of the more modern literary movement in Spain.

The private reading is selected from nineteenth century authors.

Celtic and Slavonic Languages.

The instruction in Celtic and Slavonic languages is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology.

Dr. Collitz offers courses in these languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

Semitic Languages and Biblical Literature.

The instruction in Semitic languages is under the direction of Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

The College was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is particularly rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the College and easily accessible in neighboring libraries, form a good equipment for the specialist in Biblical or Semitic study.

The courses in Semitic languages and Biblical studies will be varied from year to year, so as to form a three years' course for those students who wish to make them the chief subject in the examination for the degree of Doctor of Philosophy ; and not more than ten hours of lectures will be given in any one year, the courses selected being decided by the needs of the students.

GRADUATE COURSES.

Dr. Barton offers the following graduate courses :

Patristic Greek, especially the sub-Apostolic literature,

Twice weekly throughout the year.

This course will presuppose a knowledge of classical Greek. Its object is two-fold ; first, to gather patristic material for New Testament criticism ; and, secondly, to gain a view of the history of the early Christian Church. The reading is selected from Clement of Rome, Ignatius, Polycarp, the Epistle of Barnabas, the Epistle to Diognetus, and the Shepherd of Hermas. It is accompanied by outline lectures on the history of the early Church, a discussion of the critical questions connected with the authors read, and an introduction to the works of the principal Fathers down to Chrysostom and Augustine. This course will alternate with one of the Semitic courses.

Advanced Biblical Literature,

Twice weekly throughout the year.

This course is devoted to a study of the literary problems of the Biblical books. During the first semester the critical questions of the Old Testament are studied as fully as the time allows, while the second semester is devoted to a similar study of the New Testament. In addition to the lectures, reports are required from the students of readings assigned in the works of the leading scholars on both sides of the critical questions, and the students are helped to find the truth for themselves. Special topics are also assigned for investigation.

Seminary,

Once fortnightly throughout the year.

Twice in every month a Seminary is held at which a paper on some topic in Biblical or Semitic study is read by the instructor or by one of the students, and discussed by the members of the Seminary. A general topic is selected for each semester. The topics for 1893-94 are "Problems in Patristic Literature" and "New Testament Criticism."

For a course in New Testament texts see page 29.

Assyrian,

Twice weekly throughout the year.

For students of ancient oriental history and of Semitic religion, Assyrian is of especial importance. It is generally recognised as almost indispensable to those who purpose to teach Semitic languages, or to become students of Hebrew history and prophecy. The complicated nature of the written character and the absence of adequate dictionaries make a knowledge of some other Semitic tongue important for the study of Assyrian.

The reading of transliterated texts will begin with the first lesson, the texts being taken mainly from the classical Assyrian period (1100-650 B.C.), and especially from that of the dynasty of Sargon.

A few of the written characters will be learned daily, and as soon as learned will be used in writing exercises and reading texts in the original. The Assyrian account of the deluge and some of the creation tablets will be read in class.

The Cuneiform Inscriptions and the Old Testament,

Once weekly throughout the year.

This course is given largely by lectures, in which the following topics are treated :— a sketch of the history of the Assyrio-Babylonian peoples, based on their own records ; a brief study of the every-day life of the people as revealed in their commercial documents ; the literature and art of Assyria and Babylon, and lastly, the numerous points at which the cuneiform inscriptions touch Israelitish thought and history ; these are discussed and compared with the corresponding Old Testament passages.

Dr. Barton offers for the year 1894-95 the following graduate courses :

Hebrew, *Twice weekly throughout the year.*

Aramaic, including Syriac and Biblical Aramaic,
Twice weekly throughout the year.

Courses in more advanced Assyrian, and in the Hebrew, Phœnician, Arabic, and Ethiopic languages, will be given from time to time, according to the demands of the students.

Dr. Barton will offer in 1894-95 the following post-major courses, open to graduate students:

History of Israel from the Judges to the Fall of Jerusalem, with a sketch of the Life of Christ and of the Apostolic Age,

Twice weekly throughout the year.

History and progress of religious ideas in Israel, including a survey of the New Testament religious ideas,

Twice weekly throughout the year.

History of the Spanish and the Bagdad Califates,

Once weekly throughout the year.

The final arrangement of courses will be determined by the needs of the students for the year.

HISTORY AND POLITICAL SCIENCE.

Professors and instructors: Mr. Franklin H. Giddings, Dr. Charles McLean Andrews.

History.

The instruction in history is under the direction of Dr. Charles McLean Andrews, Associate in History.

GRADUATE COURSES.

The instruction consists mainly of lectures, which are designed to create an interest in and a truer conception of the broad lines of historical development, while constant references are given for private reading, to stimulate accuracy in detail and independence in judgment.

Dr. Andrews offers the following graduate courses in 1893-94, in addition to direction in private reading and original research:

Historical Definition, Method and Criticism, *Twice weekly throughout the year.*

This course opens with lectures upon the various theories of History from antiquity through the middle ages to the present time. In these lectures the theories of Machiavelli, Bodin, Bossuet, Vico, Voltaire, Rousseau, Turgot, Condorcet, Herder, and the modern schools are presented and compared. This is followed by the arguments for and against a philosophy and science of History. The further topics treated are: the divisions and limits of History, the different classes of historical writing, the great collections of materials in Germany, France,

Italy, England, and America, and the methods employed in treating such materials; historical criticism from the Renaissance to the present time, including the different kinds of evidence and their treatment; argument, critical analysis, aids to evidence, geography, archæology, etc.

Sources of English History,

Twice weekly throughout the year.

As prefatory to the regular work of this course a series of lectures is given on the printed collections of material from the seventeenth century to the present time. Three classes of material are discussed: (a) non-official material published by the English government, (b) official material published by the government, (c) private publications of individuals and societies. In this connection as full an account as possible is given of all commissions and societies, existing or defunct, appointed or organized for these purposes. The regular work of the class consists of the reading of portions of the historians and chroniclers contained in the *Monumenta Historica Britannica* and the *Rolls Series*; the study of the laws and charters in Schmid, Kemble, and Earle; of important texts in Rymer, Stubbs, and Bémont, and other available sources. In all cases where fac-similes are obtainable, as of Anglo-Saxon deeds and grants, of Domesday Book and Magna Carta, a small amount of paleographical work is done, with Prou and Martin as guides.

Dr. Andrews will offer in addition to the above courses the following graduate course in 1894-95:

History of the Roman Law,

Once weekly throughout the year.

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law; the Prætorian legislation, the *Jus gentium*, *Jus naturale*, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

POST-MAJOR COURSES.

Dr. Andrews offers the following post-major course, open to graduate students:

English and American Constitutional History,

Twice weekly throughout the year.

English constitutional history is examined as a necessary introduction to the study of American institutions.

Political Science.

The instruction in political science is under the direction of Mr. Franklin H. Giddings, Professor of Political Science.

GRADUATE COURSES.

These courses will not be open to any undergraduate students.

Mr. Giddings offers the following graduate courses :

Political Economy,

Once weekly throughout the year.

This is a course of advanced theory and method, designed especially for Fellows and graduate students that look forward to original work or teaching. Particular attention is given to recent theoretical work. A reading knowledge of French and German is indispensable.

Sociology,

Once weekly throughout the year.

A course of thirty lectures will be given on General Sociology. The various attempts that have been made to construct a philosophical science of society as an organic whole will be examined, and the field of sociology, as a study distinct from history, politics, and economics, will be defined. The causes and laws of social change will be sought, and the lectures will then lead up to the problem of progress, its conditions and limits. The different types of progressive and unprogressive societies will be studied comparatively. Statistical methods will be employed to show the reactions of civilisation that take such forms as insanity, suicide, crime, pauperism, and changes in birth-rates and death-rates. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, a general knowledge of the history of philosophy, and some acquaintance with the literature of modern biology and empirical psychology. A reading knowledge of French and German is requisite.

Seminary in Sociology.

The seminary work in sociology for 1893-94 is a study of the descriptive sociology of Pennsylvania. Each student makes an original investigation, based largely upon statistics found in the Census reports and in the different State reports, and presents the results in a paper, which is followed by discussion and criticism. The special subjects for investigation are the composition and density of the population of Pennsylvania, the distribution of the population according to the topographical features of the state, the statistics of immigration, the distribution of the population according to the wealth and industries, the statistics of education and illiteracy, pauperism, insanity, and crime.

Mr. Giddings offers the following major and post-major courses, open to graduate students :

1st Semester.

Advanced Political Economy,

Five times weekly.

The special subjects taken up in this course are, the Labor Question, the Land Question, Socialism, and the relations of the State to property, industry, and the poor.

2nd Semester.

Political Theories,

Five times weekly.

The leading political theories from Aristotle to Hegel, Mill, and Spencer are critically reviewed.

Mr. Giddings will offer in 1894-95 the following major and post-major courses, open to graduate students:

1st Semester.

Advanced Political Economy,

Five times weekly.

The special subjects are, Money, Bimetallism, and the Tariff History of the United States, Public Debts, Taxation, and Municipal Economy.

2nd Semester.

International Law,

Five times weekly.

Philosophy.

The instruction in philosophy, psychology and logic is under the direction of Dr. Dickinson Sergeant Miller, Associate in Philosophy.

GRADUATE COURSES.

Dr. Miller offers the following graduate courses :

Recent Philosophic Theories,

Twice weekly throughout the year.

In this course the aim is the comprehension and logical treatment of the problems themselves, together with the formation on the students' part of just and exact habits of criticism. The problems, and not the authors studied, determine the order and unity of the course. Treatises, monographs, and articles are read so far as they bear upon the subject for the time under consideration; and thus the student gains a comparative and to some extent judicial knowledge of a variety of philosophic writers and points of view. This course will be offered again in 1895-96.

The Philosophy of Spinoza,

Once (two hours) weekly throughout the year.

The essay *On the Improvement of the Understanding*, the *Ethics*, and portions of the *Theologico-Political Tractate* will be carefully read and interpreted. The extremely suggestive views, both metaphysical and moral, of this typical thinker will be examined in detail and in their broadest bearing. A comparison with Hume, the spokesman of a widely contrasted intellectual tendency and temper, will serve to throw into relief the characteristic features of Spinoza's thought. Much of the critical and analytic literature, English, German and French, relating to Spinoza will be reported upon and discussed. This course will be offered in 1894-95.

Dr. Miller offers in 1894-95 the following post-major courses, open also to graduate students :

Psychology,

Three times weekly throughout the year.

With the aid of a comprehensive text book (probably either James' *Principles of Psychology*, or the *General Psychology* of Ladd) all the main departments of the science will be treated of in the course of the year by lectures, illustrative demonstrations, reports of instructive abnormal cases, and discussion.

British Philosophy of the 17th and 18th Centuries,—Hobbes, Locke, Berkeley and Hume,

Twice weekly throughout the year.

The design of this course is to acquaint the student with the classic masterpieces of British philosophy, to arrive at an exact apprehension of the author's meaning, to mark in detail the gradual advance of thought, to compare historic theories with the views now current, and to examine into the truth or (if obviously false) into the suggestive value of the several writers' opinions.

Mathematics.

The instruction in mathematics is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Mr. James Harkness, Associate Professor of Mathematics.

GRADUATE COURSES.

The Graduate Courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the courses being varied from year to year with references to the wishes and the preparation of the students concerned, so that while the course in any one year is complete in itself, a graduate student may, if she wish, follow the courses for more than two consecutive semesters.

Dr. Scott offers the following graduate courses:

Seminary Work, *Once weekly, or oftener if required, throughout the year.*

This course consists of individual discussion and investigation of topics in advanced Analytical Geometry.

Mr. Harkness offers the following graduate courses:

Differential Equations (Advanced), *Three times weekly throughout the year.*

This course is a modification of the post-major course in Differential Equations, which was given in 1892-93, and will be repeated in 1894-95, and is given as a continuation of a previous course on the Theory of Functions. Its object is to pave the way to a study of recent developments in Differential Equations. The text-books used are Forsyth's *Differential Equations*, Jordan's *Cours d'Analyse*, t. III., and Craig's *Treatise on Linear Differential Equations with Uniform Coefficients*.

Dr. Scott will offer the following graduate courses in 1894-95:

Higher Plane Curves, *Twice weekly throughout the year.*

In this course a knowledge of the Theory of Cubic Curves will be pre-supposed; this course will be continuous with the course in Higher Plane Curves given in 1892-93.

Mr. Harkness will offer the following graduate courses in 1894-95:

Theory of Groups, *Three times weekly throughout the year.*

Students intending to take this course should have a general acquaintance with the main processes and results in the Theory of Functions. It is too early to indicate the precise amount of ground that will be covered during the year, but it is probable that during the first semester the lectures will be mainly along the lines of the standard treatises on the subject: Serret's *Cours d'Algèbre Supérieure*; Jordan's *Traité des Substitutions*; Netto's *Substitutionentheorie* (translated by Dr. F. N. Cole); while in the second semester attention will be paid to recent French and German researches on Modular and Automorphic Functions.

POST-MAJOR COURSES.

The Post-Major Courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students will frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

Dr. Scott offers the following post-major courses, open to graduate students:

Modern Higher Algebra,

Twice weekly throughout the year.

The text-book is Salmon's *Modern Algebra*, and the lectures conform to the order and contents of this book. It is designed to continue this in 1894-95, or in 1895-96, with a graduate course in Modern Algebra.

Mr. Harkness offers the following post-major courses, open to graduate students:

Differential Equations (Elementary),

Twice weekly throughout the year.

This course is carried on by lectures in connection with Forsyth's *Differential Equations*.

Dr. Scott will offer in 1894-95 the following post-major courses, open to graduate students:

Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's *Conic Sections*.

Mr. Harkness will offer in 1894-95 the following post-major course open to graduate students:

Differential Equations,

Three times weekly through the first semester.

Twice weekly through the second semester.

This course consists of lectures on differential equations with an introduction to the Theory of Functions in connection with Forsyth's *Differential Equations* and Jordan's *Cours d'Analyse*.

While there is, as yet, no separate department of Mathematical Physics, the Instructors in Mathematics and Physics will give all necessary direction and assistance to students whose preparation for the degree of Doctor of Philosophy involves work in this subject.

Mr. Harkness offers the following graduate course in 1893-94:

Dynamics,

Twice weekly through the first semester.

This course serves as an introduction to the course on The Theory of Wave Motion offered by Mr. Mackenzie in the second semester.

Science.

Graduate work in the natural sciences is highly special, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. The chemical, biological, and physical laboratories are open for students throughout the day.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories and lecture-room are carefully furnished with the necessary apparatus needed for thorough work.

Physics.

The instruction in physics is under the direction of Mr. Arthur Stanley Mackenzie, Associate in Physics, and Dr. Edgar Buckingham, Associate in Physics.

The advanced work in physics will consist of exercises intended to give the student a knowledge of physical methods and operations. There will be lectures from time to time upon selected topics. The courses for graduate students will be varied from year to year so as to form a consecutive course for students that wish to make physics one of the chief subjects in the examination for the degree of Doctor of Philosophy.

The laboratory work will be arranged to bring the student into contact with the methods of research; and for that purpose she will begin by repeating methods and investigations of well-known experimenters, with any modification that may be suggested; then pass on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students

taking physics as their chief subject for the degree of Doctor of Philosophy will be expected to spend all the time possible at work in the laboratory. The new laboratory is provided with special rooms for magnetic, optical, and electrical work, and in the basement is a constant-temperature vault designed for accurate comparisons of lengths, etc. The stock of apparatus is being added to yearly.

GRADUATE COURSES.

Mr. Mackenzie offers the following graduate courses:

Theory of Electricity and Magnetism, *Twice weekly throughout the year.*

This course will be given by lectures, supplemented on the part of the students by the reading of assigned articles, and will be based on Maxwell's standard treatise. Special attention will be given to the electromagnetic theory of light and its late developments. Students wishing to take this course must satisfy the lecturer that they have a sufficient knowledge of mathematics to follow the course with advantage. Students will also be expected to read papers on assigned topics in the Seminary meetings, and to make reports on articles appearing in current physical journals.

2nd Semester.

Theory of Wave Motion,

Three times weekly.

The work in this course will begin with a discussion of Fourier's Theorem with application to waves in heat conduction and electric cables. Afterwards attention will be given to reflection and refraction of waves in light and to similar problems.

A course on Dynamics, introductory to this, is given by Mr. Harkness twice weekly during the first semester.

Mr. Mackenzie will offer in 1894-95 the following graduate courses:

Physical Optics,

Three times weekly throughout the year.

Electricity and Magnetism,

Three times weekly throughout the year.

This course will begin with a rapid review of the ground covered in the lectures on the same subject during the major year; then the students will be introduced to the more complete discussion of the subject, with frequent references to Mascart et Joubert, Maxwell, etc., but the course will be given wholly by lectures.

Dr. Buckingham will offer in 1894-95 the following graduate course:

Thermodynamics,

Twice weekly throughout the year.

This course will treat mainly of the newer applications of Thermodynamics, especially the work of Willard Gibbs, Helmholtz, and Van't Hoff. References will be made to Dunn's *Le potentiel thermodynamique et ses applications* (Hermann, 1886, Paris).

Chemistry.

The instruction in chemistry is under the direction of Dr. Edward H. Keiser, Professor of Chemistry, and Dr. Elmer P. Kohler, Associate in Chemistry.

GRADUATE COURSES.

The graduate courses in this department consist of exercises intended to give the student a comprehensive knowledge of chemical methods and operations, and of difficult and typical operations. There are also lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry. The students make researches on assigned topics, and are required to become familiar with the literature bearing on their practical work. A knowledge of French and German is therefore necessary. The courses are varied from year to year, so as to form a consecutive course for students that wish to make chemistry one of the chief subjects in the examination for the degree of Doctor of Philosophy.

Dr. Keiser offers the following graduate courses :

Advanced Organic Chemistry, *Once weekly throughout the year.*

Chemical Seminary, *Once weekly throughout the year.*

The advanced and graduate students meet one hour a week for the reading and discussion of important books and recent articles in the journals.

Dr. Kohler offers the following graduate course :

Physical Chemistry, *Once weekly through a portion of the year.*

Drs. Keiser and Kohler conduct the following graduate Seminary :

Journal Meeting, *Once weekly throughout the year.*

This class meets to hear reports and hold discussions on scientific articles as they are published.

Biology.

The instruction in biology is under the direction of Dr. Thomas Hunt Morgan, Associate Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, and Dr. Harriet Randolph, Demonstrator in Biology and Reader in Botany.

GRADUATE COURSES.

The advanced courses will be varied from year to year, so as to form a consecutive course for students that wish to make Biology one of the chief subjects of the examination for the Degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren. It is desirable that as much laboratory work as possible should be done in connection with the courses, the object being to give students a practical knowledge of instrumental methods so far as it is

possible with the apparatus at hand. This work will be strictly individual, and determined by the qualifications and in part by the desires of each student. As far as possible it will be original investigation of some special problem.

Dr. Morgan offers the following graduate courses :

Advanced Biology,

Once fortnightly throughout the year.

A course of advanced lectures on : *a.* Theories of Metamerism ; *b.* Ancestry of the Chordata.

Dr. Warren offers the following graduate courses :

Physiological Optics,

Once weekly throughout the year.

The Use of the Graphic Method in Physiology,

Once weekly throughout the year.

Drs. Morgan and Warren conduct the following graduate seminars :

Journal Club,

Once fortnightly throughout the year.

The advanced students meet once fortnightly for the presentation and discussion of current biological literature.

Seminary,

Once fortnightly throughout the year.

The graduate students meet once fortnightly for the formal presentation of topics assigned them.

POST-MAJOR COURSES.

Dr. Morgan offers the following post-major courses, open to graduate students :

General Zoölogy,

Once weekly throughout the year.

This course consists of lectures or recitations accompanied by demonstrations and laboratory work, and is intended to cover the ground of such text-books as Hatschek's *Lehrbuch*, or Lang's *Vergleichende Anatomie*. In connection with the work a few of the important monographs of the large groups are studied.

Embryology,

Once weekly throughout the year.

This course consists of lectures on the embryology of the vertebrates. The more important embryological problems are discussed in connection with these lectures. An attempt is made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, concrescence, etc., and the evidence given by the ontogeny of vertebrates towards the solution of phylogenetic problems are examined.

Dr. Warren offers the following post-major courses open to graduate students :

Lectures and Recitations on the Structure and Functions of the Central Nervous System,

Once weekly throughout the year.

Advanced Physiology,

Once weekly throughout the year.

The topics selected depend upon the previous training of the students, and as far as possible the preferences of the student are consulted. Occasional conferences are held for the discussion of essays prepared by the students and presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

COLLEGE BUILDINGS.

The College buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The College grounds cover fifty acres, and include lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms and the offices of administration.

In January, 1893, the scientific departments of the College were transferred to Dalton Hall, a new building erected by the Trustees out of funds in large part contributed by the generosity of friends of the College. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries and the private rooms of the professors of science. The first floor and the basement are reserved for Physics, the second floor is reserved for Biology, and the third floor for Chemistry. The fourth floor contains research-rooms for advanced students and a museum. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the Alumnae and Students.

Around Taylor Hall the Trustees have erected halls of residence for the accommodation of students. Plans and descriptions of the four halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall, and plans of the academic buildings, Taylor Hall and Dalton Hall, will be mailed on application to the Secretary of the College.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a



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running or walking track for use in rainy weather ; a room for the Director, to which is attached another for the examination and record of the physical development of the students ; and bath-rooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent ; it is furnished with his complete apparatus, and is under the charge of a medical director who has completed his course of instruction.

There is on the grounds, separated from the other buildings, a Cottage Infirmary or hospital, with accommodation for patients and nurses, and its own kitchen and bathrooms.

Near the College is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the College, at a cost of twenty-five dollars a month.